

FIG. 1 Basic Configuration of a Storage System For Archive

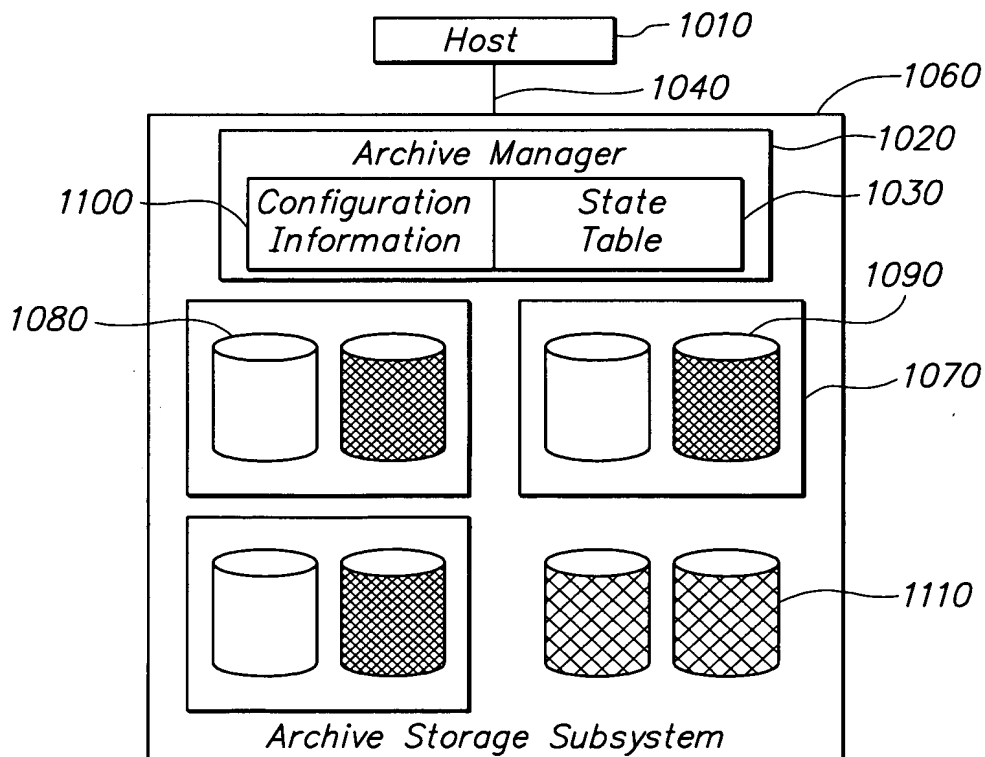


FIG. 2 The Archive Manager in the Archive Storage Subsystem

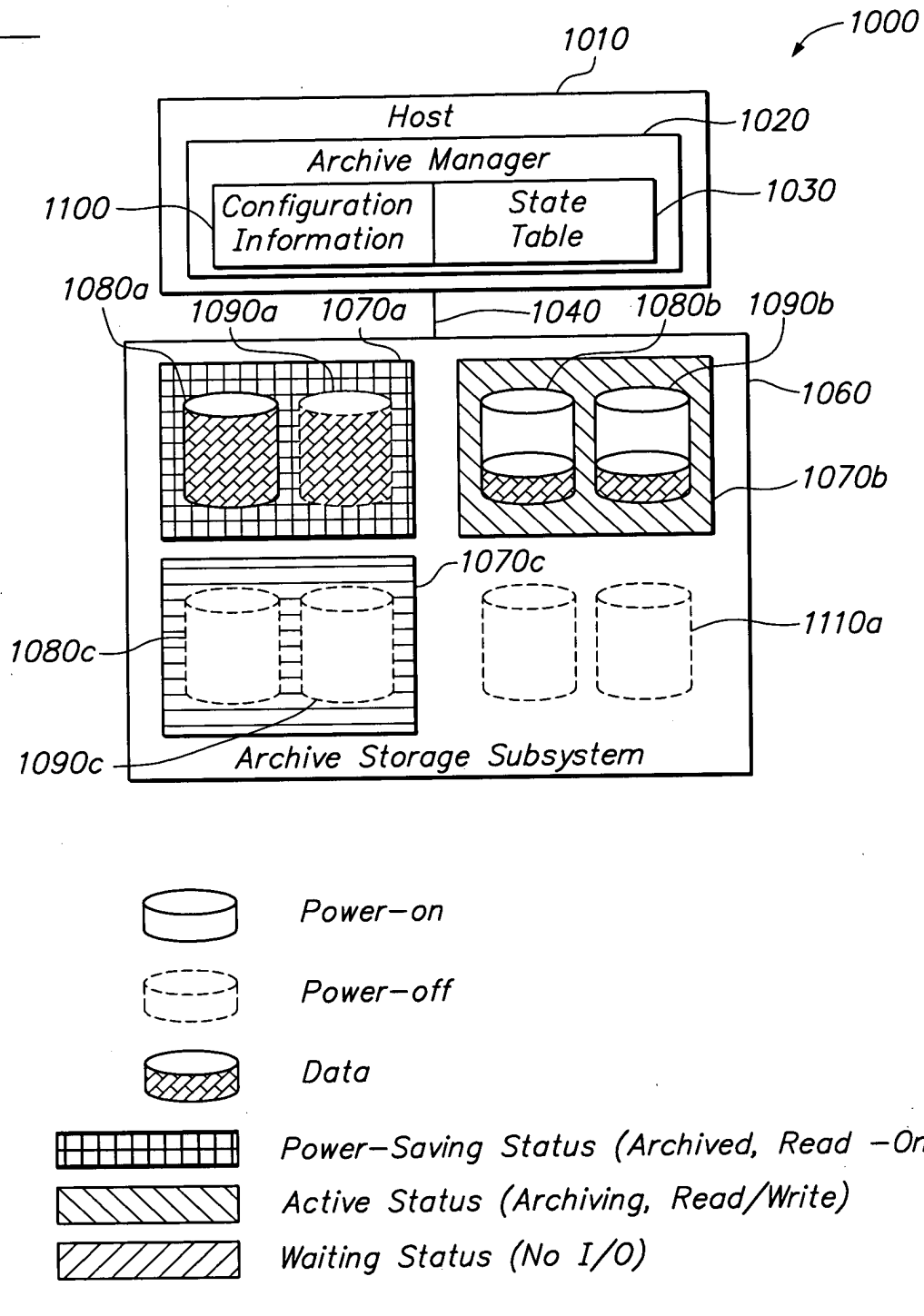


FIG. 3 Status of RAID1

	Default	Setting Range
3010— Number of Disk in RAID1 Group	2	Less of Equal Total of Disk
3020— Number of Accessible Disk in RAID1 Group	1	Less or Equal Number of Disk in RAID1 Group
3030— Power Status of Accessible Disk (Power Saving)	Saving Mode	ON, Saving Mode, OFF
3120— Power Status of Standby Disk (Power Saving)	OFF	ON, Saving Mode, OFF
3040— Power Status of Waiting Disk	OFF	ON, Saving Mode, OFF
3050— Trigger of Role Reversal for Power Saving RAID1	Time (one week)	Time (day, week, month), Equation of Access Time
3060— Threshold of Maintenance Warning	70% of total used space	Total Used Space(%), Total Used Space (Giga Bytes)
3090— Number of Spare Disk	10% of Number of Disk in Archive Storage Subsystem	Less or Equal a Half of Number of Disk in Archive Storage Subsystem
3100— Time of Mode Switching	1 Week	Hour, Day, Week, Month
3110— Rewrite after read-only	No	Yes, No

FIG. 4 Configuration Information



1030

	2090			2090			2090			2095		
	disk00	disk01	disk02	disk03	disk04	disk05	Total					
2010	On	Off	On	On	Off	Off	—					
2020	good	good	good	good	good	good	—					
2030	0000	0000	0001	0001	0002	0002	—					
2040	Power Saving		Active		Waiting		—					
2050	Read-only		R/W		No I/O		2	2130				
2060	320GB		20GB		0GB		340GB	2100				
2070	0GB		300GB		320GB		620GB	2110				
2080	320GB		320GB		320GB		960GB	2120				

1070a 1070b 1070c

FIG. 5 State Table

REPLACEMENT SHEET

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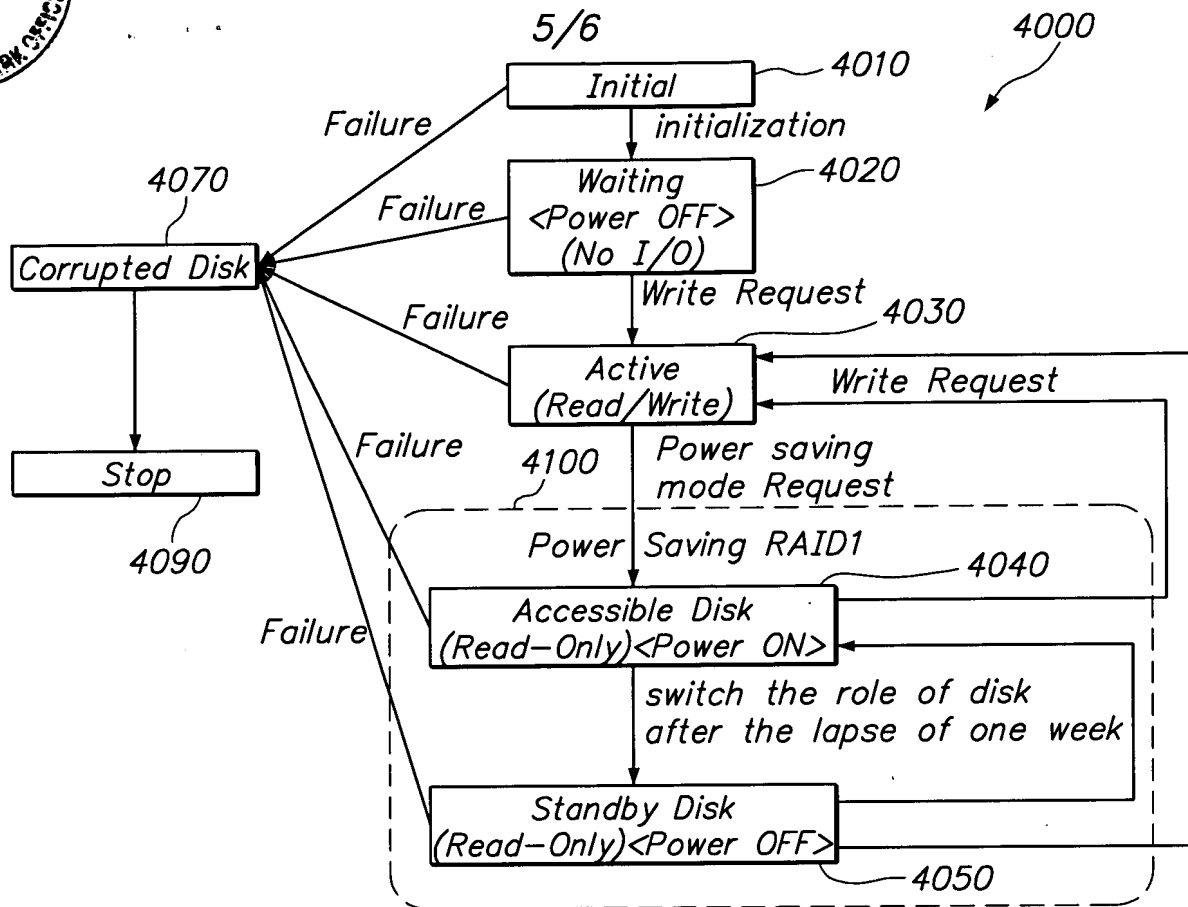


FIG. 6 State Transition Diagram (default)

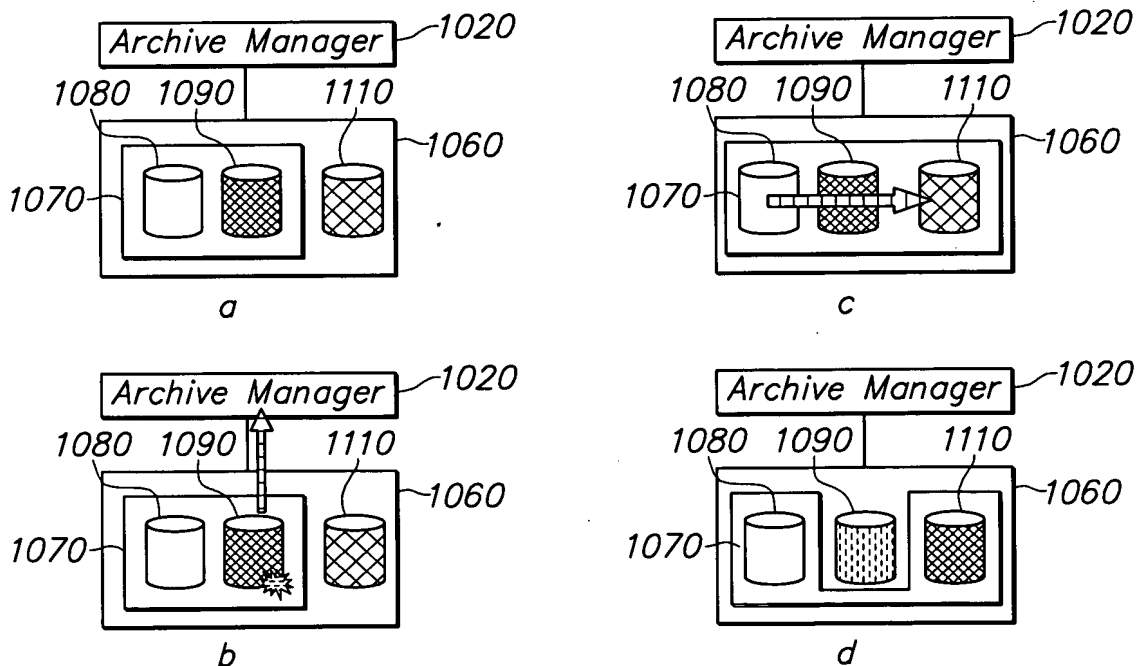


FIG. 7 Self-Repairing of RAID1 Group

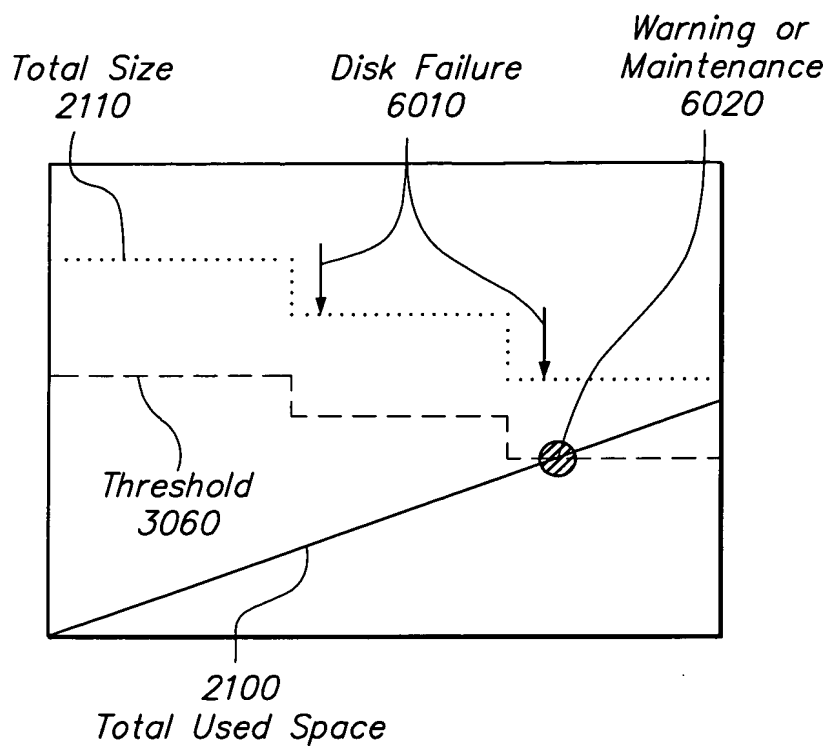


FIG. 8 Threshold Management

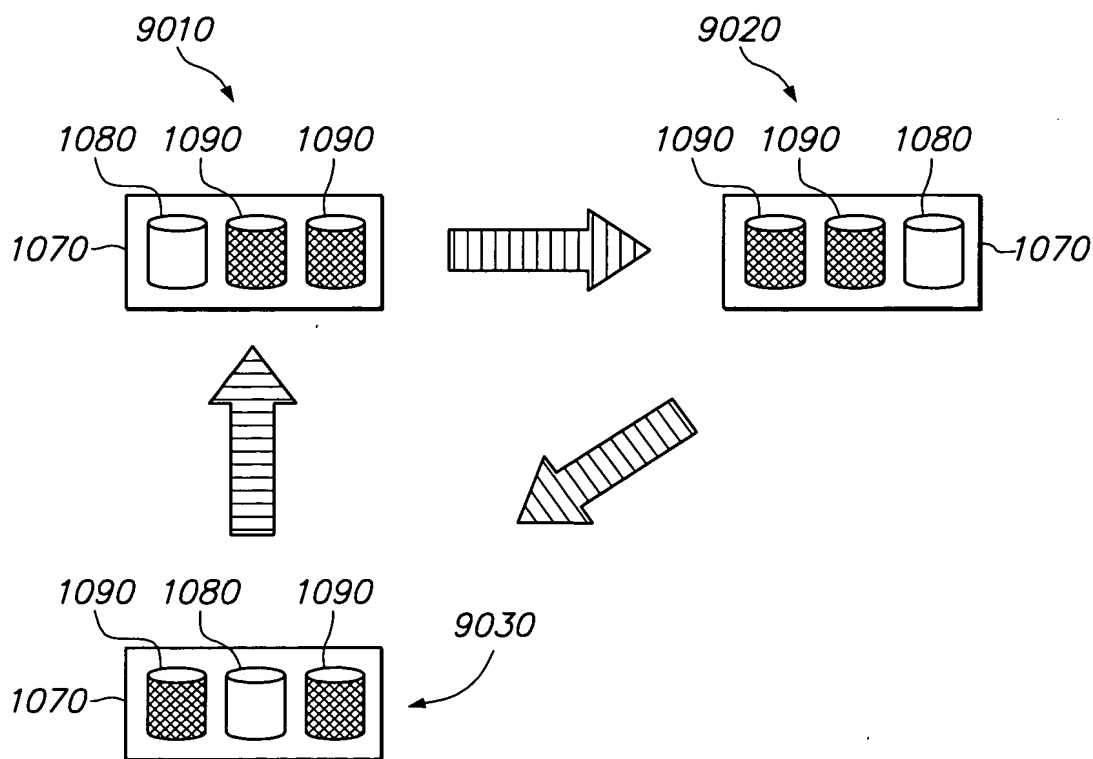


FIG. 9 Role Reversal of Disks